

INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP2005/002683

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01M8/06 C01B3/34 C01B3/36 C01B3/48 H01M8/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01M C01B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 973 220 A (TOYOTA JIDOSHA KABUSHIKI KAISHA) 19 January 2000 (2000-01-19) abstract paragraphs '0011! - '0015! paragraphs '0029!, '0033!, '0036!, '0039!, '0040! paragraphs '0051! - '0060! -----	1-10
X	WO 99/44252 A (HYDROGEN BURNER TECHNOLOGY, INC) 2 September 1999 (1999-09-02) page 7, line 32 - page 8, line 17 page 14, line 26 - page 15, line 17 ----- -/--	1-10

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

26 July 2005

Date of mailing of the international search report

02/08/2005

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PCT/JP2005/002683

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 148 024 A (DAIKIN INDUSTRIES, LTD) 24 October 2001 (2001-10-24) paragraphs '0024! - '0032! paragraphs '0043!, '0057!, '0064! - '0066! paragraphs '0074! - '0081! -----	1-10
X	EP 1 233 468 A (DELPHI TECHNOLOGIES, INC) 21 August 2002 (2002-08-21)	1,2,9,10
A	paragraphs '0020! - '0022! paragraph '0025! -----	3-8
X	US 2001/028966 A1 (KNIGHTS SHANNA D ET AL) 11 October 2001 (2001-10-11) paragraphs '0031! - '0033! -----	1,9
X	PATENT ABSTRACTS OF JAPAN vol. 016, no. 401 (E-1253), 25 August 1992 (1992-08-25) & JP 04 133271 A (NIPPON TELEGR & TELEPH CORP <NTT>), 7 May 1992 (1992-05-07) abstract -----	1,9
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 10, 17 November 2000 (2000-11-17) & JP 2000 195534 A (TOYOTA MOTOR CORP), 14 July 2000 (2000-07-14) cited in the application abstract -----	1-8

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP2005/002683

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0973220	A	19-01-2000	JP 2000034102 A CA 2277458 A1 EP 0973220 A2 US 2002031450 A1	02-02-2000 17-01-2000 19-01-2000 14-03-2002
WO 9944252	A	02-09-1999	US 6033793 A AU 3311499 A CA 2320761 A1 CN 1292157 A EP 1060533 A1 JP 2002505510 T WO 9944252 A1 US 2002006535 A1	07-03-2000 15-09-1999 02-09-1999 18-04-2001 20-12-2000 19-02-2002 02-09-1999 17-01-2002
EP 1148024	A	24-10-2001	JP 2001085039 A JP 2001080906 A EP 1148024 A1 CN 1321136 A WO 0119727 A1	30-03-2001 27-03-2001 24-10-2001 07-11-2001 22-03-2001
EP 1233468	A	21-08-2002	US 2002136939 A1 EP 1233468 A2	26-09-2002 21-08-2002
US 2001028966	A1	11-10-2001	US 6210820 B1 CA 2292993 A1 EP 1017121 A2 AU 752755 B2 AU 4494699 A CA 2336126 A1 WO 0002282 A1 EP 1099268 A1 JP 2002520778 T US 6673480 B1	03-04-2001 23-06-2000 05-07-2000 26-09-2002 24-01-2000 13-01-2000 13-01-2000 16-05-2001 09-07-2002 06-01-2004
JP 04133271	A	07-05-1992	NONE	
JP 2000195534	A	14-07-2000	NONE	